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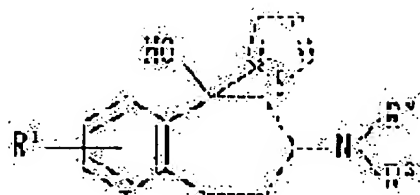
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(54) BENZOCYCLOHEPTENE DERIVATIVE AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To provide a new compound having excellent bladder contraction suppressing action and useful as an agent for preventing and treating pollakiuria.

CONSTITUTION: The compound of formula I (R¹ is H, halogen or lower alkoxy; R² and R³ are H, lower alkyl or lower alkenyl), e.g. cis-5-(2-thienyl)-7-diethylamino-6,7,8,9-tetrahydro-5H-benzocyclohepten-5-ol. The compound of formula I can be produced by reacting a carbonyl compound of formula II with a compound of formula III (M is alkali metal or MgX; X is halogen) optionally in the presence of a Lewis acid (e.g. stannic chloride) in a solvent (e.g. ether) under cooling or at room temperature. The compound is effective for the treatment and prevention of urination diseases of the lower urinary tract system (e.g. bladder and urethra) such as pollakiuria, bed-wetting, neurogenic bladder and incontinence of urine.



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